

SUBSTITUTE SEQUENCE LISTING

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<210> 1

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1

Pro	Ala	Pro	Asp	Val	Gln	Asp	Cys	Pro	Glu	Cys	Thr	Leu	Gln	Glu	Asn
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Pro	Phe	Phe	Ser	Gln	Pro	Gly	Ala	Pro	Ile	Leu	Gln	Cys	Met	Gly	Cys
			20					25					30		

Cys	Phe	Ser	Arg	Ala	Tyr	Pro	Thr	Pro	Leu	Arg	Ser	Lys	Lys	Thr	Met
		35					40					45			

Leu	Val	Gln	Lys	Asn	Val	Thr	Ser	Glu	Ser	Thr	Cys	Cys	Val	Ala	Lys
	50					55					60				

Ser	Tyr	Asn	Arg	Val	Thr	Val	Met	Gly	Gly	Phe	Lys	Val	Glu	Asn	His
65					70					75				80	

Thr	Ala	Cys	His	Cys	Ser	Thr	Cys	Tyr	Tyr	His	Lys	Ser
			85					90				

<210> 2

<211> 119
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 <213> Homo sapiens

<400> 2

Pro Phe Cys Ile Pro Thr Glu Tyr Thr Met His Ile Glu Arg Arg Glu
 1 5 10 15

Cys Ala Tyr Cys Leu Thr Ile Asn Thr Thr Ile Cys Ala Gly Tyr Cys
 20 25 30

Met Thr Arg Asp Ile Asn Gly Lys Leu Phe Leu Pro Lys Tyr Ala Leu
 35 40 45

Ser Gln Asp Val Cys Thr Tyr Arg Asp Phe Ile Tyr Arg Thr Val Glu
 50 55 60

Ile Pro Gly Cys Pro Leu His Val Ala Pro Tyr Phe Ser Tyr Pro Val
 65 70 75 80

Ala Leu Ser Cys Lys Cys Gly Lys Cys Asn Thr Asp Tyr Ser Asp Cys
 85 90 95

Ile His Glu Ala Ile Lys Thr Asn Tyr Cys Thr Lys Pro Gln Lys Ser
 100 105 110

Tyr Leu Val Gly Phe Ser Val
 115

<210> 3
 <211> 140
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 <213> Homo sapiens

<400> 3

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr Leu
 1 5 10 15

Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr Val Asn Thr Thr
 20 25 30

Ile Cys Ala Gly Tyr Cys Pro Thr Met Thr Arg Val Leu Gln Gly Val
 35 40 45

Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg Asp Val Arg Phe
 50 55 60

Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val Asn Pro Val Val
 65 70 75 80

Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu Cys Arg Arg Ser
 85 90 95

Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu Thr Cys Asp Asp
 100 105 110

Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu
 115 120 125

Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
 130 135 140

<210> 4
 <211> 122
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 <213> Homo sapiens

<400> 4

Pro Ser Arg Glu Pro Leu Arg Pro Trp Cys His Pro Ile Asn Ala Ile
 1 5 10 15

Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr Val Asn Thr
 20 25 30

Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val Leu Gln Ala
 35 40 45

Val Leu Pro Pro Leu Pro Gln Val Val Cys Thr Tyr Arg Asp Val Arg
 50 55 60

Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val Asp Pro Val
 65 70 75 80

Val Ser Phe Pro Val Ala Leu Ser Cys Arg Cys Gly Pro Cys Arg Arg
 85 90 95

Ser Thr Ser Asp Cys Gly Gly Pro Lys Asp His Pro Leu Thr Cys Asp
 100 105 110

His Pro Gln Leu Ser Gly Leu Leu Phe Leu
 115 120

<210> 5
 <211> 110
 <212> PRT
 <213> Homo sapiens
 <400> 5

Pro Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys Glu
 1 5 10 15

Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr
 20 25 30

Cys Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile
 35 40 45

Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro Gly
 50 55 60

Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr Gln
 65 70 75 80

Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val Arg
 85 90 95

Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys Glu
 100 105 110

<210> 6
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 <212> PRT
 <213> Homo sapiens
 <400> 6

Pro Ser Ile Glu Glu Ala Val Pro Ala Val Cys Lys Thr Arg Thr Val
 1 5 10 15

Ile Tyr Glu Ile Pro Arg Ser Gln Val Asp Pro Thr Ser Ala Asn Phe
 20 25 30

Leu Ile Trp Pro Pro Cys Val Glu Val Lys Arg Cys Thr Gly Cys Cys

35 40 45
 Asn Thr Ser Ser Val Lys Cys Gln Pro Ser Arg Val His His Arg Ser
 50 55 60
 Val Lys Val Ala Lys Val Glu Tyr Val Arg Lys Lys Pro Lys Leu Lys
 65 70 75 80
 Glu Val Gln Val Arg Leu Glu Glu His Leu Glu Cys Ala Cys Ala Thr
 85 90 95
 Thr Ser Leu Asn Pro Asp Tyr Arg Glu Glu Asp Thr Gly Arg Pro Arg
 100 105 110
 Glu Ser Gly Lys Lys Arg Lys Arg Lys Arg Leu Lys Pro Thr
 115 120 125
 <210> 7
 <211> 161
 <212> PRT
 <213> Homo sapiens
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 Pro Ser Leu Gly Ser Leu Thr Ile Ala Glu Pro Ala Met Ile Ala Glu
 1 5 10 15
 Cys Lys Thr Arg Thr Glu Val Phe Glu Ile Ser Arg Arg Leu Ile Asp
 20 25 30
 Arg Thr Asn Ala Asn Phe Leu Val Trp Pro Pro Cys Val Glu Val Gln
 35 40 45
 Arg Cys Ser Gly Cys Cys Asn Asn Arg Asn Val Gln Cys Arg Pro Thr
 50 55 60
 Gln Val Gln Leu Arg Pro Val Gln Val Arg Lys Ile Glu Ile Val Arg
 65 70 75 80
 Lys Lys Pro Ile Phe Lys Lys Ala Thr Val Thr Leu Glu Asp His Leu
 85 90 95
 Ala Cys Lys Cys Glu Thr Val Ala Ala Ala Arg Pro Val Thr Arg Ser
 100 105 110

Pro Gly Gly Ser Gln Glu Gln Arg Ala Lys Thr Pro Gln Thr Arg Val
 115 120 125

Thr Ile Arg Thr Val Arg Val Arg Arg Pro Pro Lys Gly Lys His Arg
 130 135 140

Lys Phe Lys His Thr His Asp Lys Thr Ala Leu Lys Glu Thr Leu Gly
 145 150 155 160

Ala

<210> 8
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 8

Pro Ala Pro Met Ala Glu Gly Gly Gly Gln Asn His His Glu Val Val
 1 5 10 15

Lys Phe Met Asp Val Tyr Gln Arg Ser Tyr Cys His Pro Ile Glu Thr
 20 25 30

Leu Val Asp Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe
 35 40 45

Lys Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp
 50 55 60

Glu Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln
 65 70 75 80

Ile Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser
 85 90 95

Phe Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg Ala
 100 105 110

Arg Gln Glu Lys Lys Ser Val Arg Gly Lys Gly Lys Gly Gln Lys Arg
 115 120 125

Lys Arg Lys Lys Ser Arg Tyr Lys Ser Trp Ser Val Pro Cys Gly Pro

130 135 140
 Cys Ser Glu Arg Arg Lys His Leu Phe Val Gln Asp Pro Gln Thr Cys
 145 150 155 160
 Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg Gln Leu
 165 170 175
 Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg
 180 185 190

 <210> 9
 <211> 121
 <212> PRT
 <213> Homo sapiens

 <400> 9
 Pro Ser Ser Ser His Pro Ile Phe His Arg Gly Glu Phe Ser Val Cys
 1 5 10 15
 Asp Ser Val Ser Val Trp Val Gly Asp Lys Thr Thr Ala Thr Asp Ile
 20 25 30
 Lys Gly Lys Glu Val Met Val Leu Gly Glu Val Asn Asn Ile Asn Ser
 35 40 45
 Val Phe Lys Gln Tyr Phe Phe Glu Thr Lys Cys Arg Asp Pro Asn Pro
 50 55 60
 Val Asp Ser Gly Cys Arg Gly Ile Asp Ser Lys His Trp Asn Ser Tyr
 65 70 75 80
 Cys Thr Thr Thr His Thr Phe Val Lys Ala Met Leu Thr Asp Gly Lys
 85 90 95
 Gln Ala Ala Trp Arg Phe Ile Arg Ile Asp Thr Ala Cys Val Cys Val
 100 105 110
 Leu Ser Arg Lys Ala Val Arg Arg Ala
 115 120

<210> 10
 <211> 120
 <212> PRT

<213> Homo sapiens

<400> 10

Pro His Ser Asp Pro Ala Arg Arg Gly Glu Leu Ser Val Cys Asp Ser
1 5 10 15

Ile Ser Glu Trp Val Thr Ala Ala Asp Lys Lys Thr Ala Val Asp Met
20 25 30

Ser Gly Gly Thr Val Thr Val Leu Glu Lys Val Ser Pro Val Lys Gly
35 40 45

Gln Leu Lys Gln Tyr Phe Tyr Glu Thr Lys Cys Asn Pro Met Gly Tyr
50 55 60

Thr Lys Glu Gly Cys Arg Gly Ile Asp Lys Arg His Trp Asn Ser Gln
65 70 75 80

Cys Arg Thr Thr Gln Ser Tyr Val Arg Ala Met Leu Thr Asp Ser Lys
85 90 95

Lys Arg Ile Gly Trp Arg Phe Ile Arg Ile Asp Thr Ser Cys Val Cys
100 105 110

Ile Leu Thr Ile Lys Arg Gly Arg
115 120

<210> 11

<211> 120

<212> PRT

<213> Homo sapiens

<400> 11

Pro Tyr Ala Glu His Lys Ser His Arg Gly Glu Tyr Ser Val Cys Asp
1 5 10 15

Ser Glu Ser Leu Trp Val Thr Asp Lys Ser Ser Ala Ile Asp Ile Arg
20 25 30

Gly His Gln Val Thr Val Leu Gly Glu Ile Gly Lys Thr Asn Ser Pro
35 40 45

Val Lys Gln Tyr Phe Tyr Glu Thr Arg Cys Lys Glu Ala Arg Pro Val
50 55 60

Lys Asn Gly Cys Arg Gly Ile Asp Asp Arg His Trp Asn Ser Gln Cys
65 70 75 80

Lys Thr Ser Gln Thr Tyr Val Arg Ala Ser Leu Thr Glu Asn Asn Lys
85 90 95

Leu Val Gly Trp Arg Trp Ile Arg Ile Asp Thr Ser Cys Val Cys Ala
100 105 110

Leu Ser Arg Lys Ile Gly Arg Thr
115 120

<210> 12
<211> 131
<212> PRT
<213> Homo sapiens

<400> 12

Pro Gly Val Ser Glu Thr Ala Pro Ala Ser Arg Arg Gly Glu Leu Ala
1 5 10 15

Val Cys Asp Ala Val Ser Gly Trp Val Thr Asp Arg Arg Thr Ala Val
20 25 30

Asp Leu Arg Gly Arg Glu Val Glu Val Leu Gly Glu Val Pro Ala Ala
35 40 45

Gly Gly Ser Pro Leu Arg Gln Tyr Phe Phe Glu Thr Arg Cys Lys Ala
50 55 60

Asp Asn Ala Glu Glu Gly Gly Pro Gly Ala Gly Gly Gly Gly Cys Arg
65 70 75 80

Gly Val Asp Arg Arg His Trp Val Ser Glu Cys Lys Ala Lys Gln Ser
85 90 95

Tyr Val Arg Ala Leu Thr Ala Asp Ala Gln Gly Arg Val Gly Trp Arg
100 105 110

Trp Ile Arg Ile Asp Thr Ala Cys Val Cys Thr Leu Leu Ser Arg Thr
115 120 125

Gly Arg Ala
130

<210> 13
<211> 113
<212> PRT
<213> Homo sapiens

<400> 13

Pro Ala Leu Asp Thr Asn Tyr Cys Phe Ser Ser Thr Glu Lys Asn Cys
1 5 10 15

Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp Lys
20 25 30

Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly Pro
35 40 45

Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys Val Leu Ala
50 55 60

Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys Val
65 70 75 80

Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val Gly Arg Lys
85 90 95

Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val Arg Ser Cys Lys Cys
100 105 110

Ser

<210> 14
<211> 113
<212> PRT
<213> Homo sapiens

<400> 14

Pro Ala Leu Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys
1 5 10 15

Cys Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys
20 25 30

Trp Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala
 35 40 45

Cys Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val Leu Ser
 50 55 60

Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val
 65 70 75 80

Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr
 85 90 95

Pro Lys Ile Glu Gln Leu Ser Asn Met Ile Val Lys Ser Cys Lys Cys
 100 105 110

Ser

<210> 15
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 15

Pro Ala Leu Asp Thr Asn Tyr Cys Phe Arg Asn Leu Glu Glu Asn Cys
 1 5 10 15

Cys Val Arg Pro Leu Tyr Ile Asp Phe Arg Gln Asp Leu Gly Trp Lys
 20 25 30

Trp Val His Glu Pro Lys Gly Tyr Tyr Ala Asn Phe Cys Ser Gly Pro
 35 40 45

Cys Pro Tyr Leu Arg Ser Ala Asp Thr Thr His Ser Thr Val Leu Gly
 50 55 60

Leu Tyr Asn Thr Leu Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val
 65 70 75 80

Pro Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Val Gly Arg Thr
 85 90 95

Pro Lys Val Glu Gln Leu Ser Asn Met Val Val Lys Ser Cys Lys Cys

100

105

110

Ser

<210> 16

<211> 371

<212> PRT

<213> Homo sapiens

<400> 16

Pro Met Trp Pro Leu Trp Leu Cys Trp Ala Leu Trp Val Leu Pro Leu
 1 5 10 15

Ala Gly Pro Gly Ala Ala Leu Thr Glu Glu Gln Leu Leu Ala Ser Leu
 20 25 30

Leu Arg Gln Leu Gln Leu Ser Glu Val Pro Val Leu Asp Arg Ala Asp
 35 40 45

Met Glu Lys Leu Val Ile Pro Ala His Val Arg Ala Gln Tyr Val Val
 50 55 60

Leu Leu Arg Arg Asp Gly Asp Arg Ser Arg Gly Lys Arg Phe Ser Gln
 65 70 75 80

Ser Phe Arg Glu Val Ala Gly Arg Phe Leu Ala Ser Glu Ala Ser Thr
 85 90 95

His Leu Leu Val Phe Gly Met Glu Gln Arg Leu Pro Pro Asn Ser Glu
 100 105 110

Leu Val Gln Ala Val Leu Arg Leu Phe Gln Glu Pro Val Pro Gln Gly
 115 120 125

Ala Leu His Arg His Gly Arg Leu Ser Pro Ala Ala Pro Lys Ala Arg
 130 135 140

Val Thr Val Glu Trp Leu Val Arg Asp Asp Gly Ser Asn Arg Thr Ser
 145 150 155 160

Leu Ile Asp Ser Arg Leu Val Ser Val His Glu Ser Gly Trp Lys Ala
 165 170 175

Phe Asp Val Thr Glu Ala Val Asn Phe Trp Gln Gln Leu Ser Arg Pro
 180 185 190

Pro Glu Pro Leu Leu Val Gln Val Ser Val Gln Arg Glu His Leu Gly
 195 200 205

Pro Leu Ala Ser Gly Ala His Lys Leu Val Arg Phe Ala Ser Gln Gly
 210 215 220

Ala Pro Ala Gly Leu Gly Glu Pro Gln Leu Glu Leu His Thr Leu Asp
 225 230 235 240

Leu Arg Asp Tyr Gly Ala Gln Gly Asp Cys Asp Pro Glu Ala Pro Met
 245 250 255

Thr Glu Gly Thr Arg Cys Cys Arg Gln Glu Met Tyr Ile Asp Leu Gln
 260 265 270

Gly Met Lys Trp Ala Lys Asn Trp Val Leu Glu Pro Pro Gly Phe Leu
 275 280 285

Ala Tyr Glu Cys Val Gly Thr Cys Gln Gln Pro Pro Glu Ala Leu Ala
 290 295 300

Phe Asn Trp Pro Phe Leu Gly Pro Arg Gln Cys Ile Ala Ser Glu Thr
 305 310 315 320

Ala Ser Leu Pro Met Ile Val Ser Ile Lys Glu Gly Gly Arg Thr Arg
 325 330 335

Pro Gln Val Val Ser Leu Pro Asn Met Arg Val Gln Lys Cys Ser Cys
 340 345 350

Ala Ser Asp Gly Ala Leu Val Pro Arg Arg Leu Gln His Arg Pro Trp
 355 360 365

Cys Ile His
 370

<210> 17
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 17

Pro Met Gln Arg Trp Lys Ala Ala Ala Leu Ala Ser Val Leu Cys Ser
1 5 10 15

Ser Val Leu Ser Ile Trp Met Cys Arg Glu Gly Leu Leu Leu Ser His
20 25 30

Arg Leu Gly Pro Ala Leu Val Pro Leu His Arg Leu Pro Arg Thr Leu
35 40 45

Asp Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly
50 55 60

Ala Pro Asp Ala Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg
65 70 75 80

Pro Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg
85 90 95

Ala Arg Leu Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg
100 105 110

Val Ser Glu Leu Gly Leu Gly Tyr Ala Ser Asp Glu Thr Val Leu Phe
115 120 125

Arg Tyr Cys Ala Gly Ala Cys Glu Ala Ala Ala Arg Val Tyr Asp Leu
130 135 140

Gly Leu Arg Arg Leu Arg Gln Arg Arg Arg Leu Arg Arg Glu Arg Val
145 150 155 160

Arg Ala Gln Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser
165 170 175

Phe Leu Asp Ala His Ser Arg Tyr His Thr Val His Glu Leu Ser Ala
180 185 190

Arg Glu Cys Ala Cys Val
195

<210> 18

<211> 367

<212> PRT
 <213> Homo sapiens

<400> 18

Pro Met Val Leu His Leu Leu Leu Phe Leu Leu Leu Thr Pro Gln Gly
 1 5 10 15

Gly His Ser Cys Gln Gly Leu Glu Leu Ala Arg Glu Leu Val Leu Ala
 20 25 30

Lys Val Arg Ala Leu Phe Leu Asp Ala Leu Gly Pro Pro Ala Val Thr
 35 40 45

Arg Glu Gly Gly Asp Pro Gly Val Arg Arg Leu Pro Arg Arg His Ala
 50 55 60

Leu Gly Gly Phe Thr His Arg Gly Ser Glu Pro Glu Glu Glu Glu Asp
 65 70 75 80

Val Ser Gln Ala Ile Leu Phe Pro Ala Thr Asp Ala Ser Cys Glu Asp
 85 90 95

Lys Ser Ala Ala Arg Gly Leu Ala Gln Glu Ala Glu Glu Gly Leu Phe
 100 105 110

Arg Tyr Met Phe Arg Pro Ser Gln His Thr Arg Ser Arg Gln Val Thr
 115 120 125

Ser Ala Gln Leu Trp Phe His Thr Gly Leu Asp Arg Gln Gly Thr Ala
 130 135 140

Ala Ser Asn Ser Ser Glu Pro Leu Leu Gly Leu Leu Ala Leu Ser Pro
 145 150 155 160

Gly Gly Pro Val Ala Val Pro Met Ser Leu Gly His Ala Pro Pro His
 165 170 175

Trp Ala Val Leu His Leu Ala Thr Ser Ala Leu Ser Leu Leu Thr His
 180 185 190

Pro Val Leu Val Leu Leu Leu Arg Cys Pro Leu Cys Thr Cys Ser Ala
 195 200 205

Arg Pro Glu Ala Thr Pro Phe Leu Val Ala His Thr Arg Thr Arg Pro
 210 215 220

Pro Ser Gly Gly Glu Arg Ala Arg Arg Ser Thr Pro Leu Met Ser Trp
 225 230 235 240

Pro Trp Ser Pro Ser Ala Leu Arg Leu Leu Gln Arg Pro Pro Glu Glu
 245 250 255

Pro Ala Ala His Ala Asn Cys His Arg Val Ala Leu Asn Ile Ser Phe
 260 265 270

Gln Glu Leu Gly Trp Glu Arg Trp Ile Val Tyr Pro Pro Ser Phe Ile
 275 280 285

Phe His Tyr Cys His Gly Gly Cys Gly Leu His Ile Pro Pro Asn Leu
 290 295 300

Ser Leu Pro Val Pro Gly Ala Pro Pro Thr Pro Ala Gln Pro Tyr Ser
 305 310 315 320

Leu Leu Pro Gly Ala Gln Pro Cys Cys Ala Ala Leu Pro Gly Thr Met
 325 330 335

Arg Pro Leu His Val Arg Thr Thr Ser Asp Gly Gly Tyr Ser Phe Lys
 340 345 350

Tyr Glu Thr Val Pro Asn Leu Leu Thr Gln His Cys Ala Cys Ile
 355 360 365

<210> 19
 <211> 427
 <212> PRT
 <213> Homo sapiens

<400> 19

Pro Met Pro Leu Leu Trp Leu Arg Gly Phe Leu Leu Ala Ser Cys Trp
 1 5 10 15

Ile Ile Val Arg Ser Ser Pro Thr Pro Gly Ser Glu Gly His Ser Ala
 20 25 30

Ala Pro Asp Cys Pro Ser Cys Ala Leu Ala Ala Leu Pro Lys Asp Val
 35 40 45

Pro Asn Ser Gln Pro Glu Met Val Glu Ala Val Lys Lys His Ile Leu
 50 55 60

Asn Met Leu His Leu Lys Lys Arg Pro Asp Val Thr Gln Pro Val Pro
 65 70 75 80

Lys Ala Ala Leu Leu Asn Ala Ile Arg Lys Leu His Val Gly Lys Val
 85 90 95

Gly Glu Asn Gly Tyr Val Glu Ile Glu Asp Asp Ile Gly Arg Arg Ala
 100 105 110

Glu Met Asn Glu Leu Met Glu Gln Thr Ser Glu Ile Ile Thr Phe Ala
 115 120 125

Glu Ser Gly Thr Ala Arg Lys Thr Leu His Phe Glu Ile Ser Lys Glu
 130 135 140

Gly Ser Asp Leu Ser Val Val Glu Arg Ala Glu Val Trp Leu Phe Leu
 145 150 155 160

Lys Val Pro Lys Ala Asn Arg Thr Arg Thr Lys Val Thr Ile Arg Leu
 165 170 175

Phe Gln Gln Gln Lys His Pro Gln Gly Ser Leu Asp Thr Gly Glu Glu
 180 185 190

Ala Glu Glu Val Gly Leu Lys Gly Glu Arg Ser Glu Leu Leu Leu Ser
 195 200 205

Glu Lys Val Val Asp Ala Arg Lys Ser Thr Trp His Val Phe Pro Val
 210 215 220

Ser Ser Ser Ile Gln Arg Leu Leu Asp Gln Gly Lys Ser Ser Leu Asp
 225 230 235 240

Val Arg Ile Ala Cys Glu Gln Cys Gln Glu Ser Gly Ala Ser Leu Val
 245 250 255

Leu Leu Gly Lys Lys Lys Lys Lys Glu Glu Glu Gly Glu Gly Lys Lys
 260 265 270

Lys Gly Gly Gly Glu Gly Gly Ala Gly Ala Asp Glu Glu Lys Glu Gln
 275 280 285

Ser His Arg Pro Phe Leu Met Leu Gln Ala Arg Gln Ser Glu Asp His
 290 295 300

Pro His Arg Arg Arg Arg Arg Gly Leu Glu Cys Asp Gly Lys Val Asn
 305 310 315 320

Ile Cys Cys Lys Lys Gln Phe Phe Val Ser Phe Lys Asp Ile Gly Trp
 325 330 335

Asn Asp Trp Ile Ile Ala Pro Ser Gly Tyr His Ala Asn Tyr Cys Glu
 340 345 350

Gly Glu Cys Pro Ser His Ile Ala Gly Thr Ser Gly Ser Ser Leu Ser
 355 360 365

Phe His Ser Thr Val Ile Asn His Tyr Arg Met Arg Gly His Ser Pro
 370 375 380

Phe Ala Asn Leu Lys Ser Cys Cys Val Pro Thr Lys Leu Arg Pro Met
 385 390 395 400

Ser Met Leu Tyr Tyr Asp Asp Gly Gln Asn Ile Ile Lys Lys Asp Ile
 405 410 415

Gln Asn Met Ile Val Glu Glu Cys Gly Cys Ser
 420 425

<210> 20
 <211> 408
 <212> PRT
 <213> Homo sapiens

<400> 20

Pro Met Asp Gly Leu Pro Gly Arg Ala Leu Gly Ala Ala Cys Leu Leu
 1 5 10 15

Leu Leu Ala Ala Gly Trp Leu Gly Pro Glu Ala Trp Gly Ser Pro Thr
 20 25 30

Pro Pro Pro Thr Pro Ala Ala Pro Pro Pro Pro Pro Pro Gly Ser

35	40	45																	
Pro	Gly	Gly	Ser	Gln	Asp	Thr	Cys	Thr	Ser	Cys	Gly	Gly	Phe	Arg	Arg				
50						55					60								
Pro	Glu	Glu	Leu	Gly	Arg	Val	Asp	Gly	Asp	Phe	Leu	Glu	Ala	Val	Lys				
65					70					75					80				
Arg	His	Ile	Leu	Ser	Arg	Leu	Gln	Met	Arg	Gly	Arg	Pro	Asn	Ile	Thr				
				85					90					95					
His	Ala	Val	Pro	Lys	Ala	Ala	Met	Val	Thr	Ala	Leu	Arg	Lys	Leu	His				
			100					105					110						
Ala	Gly	Lys	Val	Arg	Glu	Asp	Gly	Arg	Val	Glu	Ile	Pro	His	Leu	Asp				
		115					120					125							
Gly	His	Ala	Ser	Pro	Gly	Ala	Asp	Gly	Gln	Glu	Arg	Val	Ser	Glu	Ile				
130						135					140								
Ile	Ser	Phe	Ala	Glu	Thr	Asp	Gly	Leu	Ala	Ser	Ser	Arg	Val	Arg	Leu				
145					150					155					160				
Tyr	Phe	Phe	Ile	Ser	Asn	Glu	Gly	Asn	Gln	Asn	Leu	Phe	Val	Val	Gln				
				165				170						175					
Ala	Ser	Leu	Trp	Leu	Tyr	Leu	Lys	Leu	Leu	Pro	Tyr	Val	Leu	Glu	Lys				
			180					185					190						
Gly	Ser	Arg	Arg	Lys	Val	Arg	Val	Lys	Val	Tyr	Phe	Gln	Glu	Gln	Gly				
		195					200					205							
His	Gly	Asp	Arg	Trp	Asn	Met	Val	Glu	Lys	Arg	Val	Asp	Leu	Lys	Arg				
210						215					220								
Ser	Gly	Trp	His	Thr	Phe	Pro	Leu	Thr	Glu	Ala	Ile	Gln	Ala	Leu	Phe				
225					230					235					240				
Glu	Arg	Gly	Glu	Arg	Arg	Leu	Asn	Leu	Asp	Val	Gln	Cys	Asp	Ser	Cys				
				245					250					255					
Gln	Glu	Leu	Ala	Val	Val	Pro	Val	Phe	Val	Asp	Pro	Gly	Glu	Glu	Ser				
			260					265					270						

His Arg Pro Phe Val Val Val Gln Ala Arg Leu Gly Asp Ser Arg His
 275 280 285

Arg Ile Arg Lys Arg Gly Leu Glu Cys Asp Gly Arg Thr Asn Leu Cys
 290 295 300

Cys Arg Gln Gln Phe Phe Ile Asp Phe Arg Leu Ile Gly Trp Asn Asp
 305 310 315 320

Trp Ile Ile Ala Pro Thr Gly Tyr Tyr Gly Asn Tyr Cys Glu Gly Ser
 325 330 335

Cys Pro Ala Tyr Leu Ala Gly Val Pro Gly Ser Ala Ser Ser Phe His
 340 345 350

Thr Ala Val Val Asn Gln Tyr Arg Met Arg Gly Leu Asn Pro Gly Thr
 355 360 365

Val Asn Ser Cys Cys Ile Pro Thr Lys Leu Ser Thr Met Ser Met Leu
 370 375 380

Tyr Phe Asp Asp Glu Tyr Asn Ile Val Lys Arg Asp Val Pro Asn Met
 385 390 395 400

Ile Val Glu Glu Cys Gly Cys Ala
 405

<210> 21
 <211> 427
 <212> PRT
 <213> Homo sapiens

<400> 21

Pro Met Pro Leu Leu Trp Leu Arg Gly Phe Leu Leu Ala Ser Cys Trp
 1 5 10 15

Ile Ile Val Arg Ser Ser Pro Thr Pro Gly Ser Glu Gly His Ser Ala
 20 25 30

Ala Pro Asp Cys Pro Ser Cys Ala Leu Ala Ala Leu Pro Lys Asp Val
 35 40 45

Pro Asn Ser Gln Pro Glu Met Val Glu Ala Val Lys Lys His Ile Leu
 50 55 60

Asn Met Leu His Leu Lys Lys Arg Pro Asp Val Thr Gln Pro Val Pro
 65 70 75 80

Lys Ala Ala Leu Leu Asn Ala Ile Arg Lys Leu His Val Gly Lys Val
 85 90 95

Gly Glu Asn Gly Tyr Val Glu Ile Glu Asp Asp Ile Gly Arg Arg Ala
 100 105 110

Glu Met Asn Glu Leu Met Glu Gln Thr Ser Glu Ile Ile Thr Phe Ala
 115 120 125

Glu Ser Gly Thr Ala Arg Lys Thr Leu His Phe Glu Ile Ser Lys Glu
 130 135 140

Gly Ser Asp Leu Ser Val Val Glu Arg Ala Glu Val Trp Leu Phe Leu
 145 150 155 160

Lys Val Pro Lys Ala Asn Arg Thr Arg Thr Lys Val Thr Ile Arg Leu
 165 170 175

Phe Gln Gln Gln Lys His Pro Gln Gly Ser Leu Asp Thr Gly Glu Glu
 180 185 190

Ala Glu Glu Val Gly Leu Lys Gly Glu Arg Ser Glu Leu Leu Leu Ser
 195 200 205

Glu Lys Val Val Asp Ala Arg Lys Ser Thr Trp His Val Phe Pro Val
 210 215 220

Ser Ser Ser Ile Gln Arg Leu Leu Asp Gln Gly Lys Ser Ser Leu Asp
 225 230 235 240

Val Arg Ile Ala Cys Glu Gln Cys Gln Glu Ser Gly Ala Ser Leu Val
 245 250 255

Leu Leu Gly Lys Lys Lys Lys Lys Glu Glu Glu Gly Glu Gly Lys Lys
 260 265 270

Lys Gly Gly Gly Glu Gly Gly Ala Gly Ala Asp Glu Glu Lys Glu Gln

275 280 285
 Ser His Arg Pro Phe Leu Met Leu Gln Ala Arg Gln Ser Glu Asp His
 290 295 300
 Pro His Arg Arg Arg Arg Arg Gly Leu Glu Cys Asp Gly Lys Val Asn
 305 310 315 320
 Ile Cys Cys Lys Lys Gln Phe Phe Val Ser Phe Lys Asp Ile Gly Trp
 325 330 335
 Asn Asp Trp Ile Ile Ala Pro Ser Gly Tyr His Ala Asn Tyr Cys Glu
 340 345 350
 Gly Glu Cys Pro Ser His Ile Ala Gly Thr Ser Gly Ser Ser Leu Ser
 355 360 365
 Phe His Ser Thr Val Ile Asn His Tyr Arg Met Arg Gly His Ser Pro
 370 375 380
 Phe Ala Asn Leu Lys Ser Cys Cys Val Pro Thr Lys Leu Arg Pro Met
 385 390 395 400
 Ser Met Leu Tyr Tyr Asp Asp Gly Gln Asn Ile Ile Lys Lys Asp Ile
 405 410 415
 Gln Asn Met Ile Val Glu Glu Cys Gly Cys Ser
 420 425
 <210> 22
 <211> 408
 <212> PRT
 <213> Homo sapiens
 <400> 22
 Pro Met Asp Gly Leu Pro Gly Arg Ala Leu Gly Ala Ala Cys Leu Leu
 1 5 10 15
 Leu Leu Ala Ala Gly Trp Leu Gly Pro Glu Ala Trp Gly Ser Pro Thr
 20 25 30
 Pro Pro Pro Thr Pro Ala Ala Pro Pro Pro Pro Pro Pro Gly Ser
 35 40 45

Pro Gly Gly Ser Gln Asp Thr Cys Thr Ser Cys Gly Gly Phe Arg Arg
 50 55 60

Pro Glu Glu Leu Gly Arg Val Asp Gly Asp Phe Leu Glu Ala Val Lys
 65 70 75 80

Arg His Ile Leu Ser Arg Leu Gln Met Arg Gly Arg Pro Asn Ile Thr
 85 90 95

His Ala Val Pro Lys Ala Ala Met Val Thr Ala Leu Arg Lys Leu His
 100 105 110

Ala Gly Lys Val Arg Glu Asp Gly Arg Val Glu Ile Pro His Leu Asp
 115 120 125

Gly His Ala Ser Pro Gly Ala Asp Gly Gln Glu Arg Val Ser Glu Ile
 130 135 140

Ile Ser Phe Ala Glu Thr Asp Gly Leu Ala Ser Ser Arg Val Arg Leu
 145 150 155 160

Tyr Phe Phe Ile Ser Asn Glu Gly Asn Gln Asn Leu Phe Val Val Gln
 165 170 175

Ala Ser Leu Trp Leu Tyr Leu Lys Leu Leu Pro Tyr Val Leu Glu Lys
 180 185 190

Gly Ser Arg Arg Lys Val Arg Val Lys Val Tyr Phe Gln Glu Gln Gly
 195 200 205

His Gly Asp Arg Trp Asn Met Val Glu Lys Arg Val Asp Leu Lys Arg
 210 215 220

Ser Gly Trp His Thr Phe Pro Leu Thr Glu Ala Ile Gln Ala Leu Phe
 225 230 235 240

Glu Arg Gly Glu Arg Arg Leu Asn Leu Asp Val Gln Cys Asp Ser Cys
 245 250 255

Gln Glu Leu Ala Val Val Pro Val Phe Val Asp Pro Gly Glu Glu Ser
 260 265 270

His Arg Pro Phe Val Val Val Gln Ala Arg Leu Gly Asp Ser Arg His
 275 280 285

Arg Ile Arg Lys Arg Gly Leu Glu Cys Asp Gly Arg Thr Asn Leu Cys
 290 295 300

Cys Arg Gln Gln Phe Phe Ile Asp Phe Arg Leu Ile Gly Trp Asn Asp
 305 310 315 320

Trp Ile Ile Ala Pro Thr Gly Tyr Tyr Gly Asn Tyr Cys Glu Gly Ser
 325 330 335

Cys Pro Ala Tyr Leu Ala Gly Val Pro Gly Ser Ala Ser Ser Phe His
 340 345 350

Thr Ala Val Val Asn Gln Tyr Arg Met Arg Gly Leu Asn Pro Gly Thr
 355 360 365

Val Asn Ser Cys Cys Ile Pro Thr Lys Leu Ser Thr Met Ser Met Leu
 370 375 380

Tyr Phe Asp Asp Glu Tyr Asn Ile Val Lys Arg Asp Val Pro Asn Met
 385 390 395 400

Ile Val Glu Glu Cys Gly Cys Ala
 405

<210> 23
 <211> 561
 <212> PRT
 <213> Homo sapiens

<400> 23

Pro Met Arg Asp Leu Pro Leu Thr Ser Leu Ala Leu Val Leu Ser Ala
 1 5 10 15

Leu Gly Ala Leu Leu Gly Thr Glu Ala Leu Arg Ala Glu Glu Pro Ala
 20 25 30

Val Gly Thr Ser Gly Leu Ile Phe Arg Glu Asp Leu Asp Trp Pro Pro
 35 40 45

Gly Ile Pro Gln Glu Pro Leu Cys Leu Val Ala Leu Gly Gly Asp Ser
 50 55 60

Asn Gly Ser Ser Ser Pro Leu Arg Val Val Gly Ala Leu Ser Ala Tyr
 65 70 75 80

Glu Gln Ala Phe Leu Gly Ala Val Gln Arg Ala Arg Trp Gly Pro Arg
 85 90 95

Asp Leu Ala Thr Phe Gly Val Cys Asn Thr Gly Asp Arg Gln Ala Ala
 100 105 110

Leu Pro Ser Leu Arg Arg Leu Gly Ala Trp Leu Arg Asp Pro Gly Gly
 115 120 125

Gln Arg Leu Val Val Leu His Leu Glu Glu Val Thr Trp Glu Pro Thr
 130 135 140

Pro Ser Leu Arg Phe Gln Glu Pro Pro Pro Gly Gly Ala Gly Pro Pro
 145 150 155 160

Glu Leu Ala Leu Leu Val Leu Tyr Pro Gly Pro Gly Pro Glu Val Thr
 165 170 175

Val Thr Arg Ala Gly Leu Pro Gly Ala Gln Ser Leu Cys Pro Ser Arg
 180 185 190

Asp Thr Arg Tyr Leu Val Leu Ala Val Asp Arg Pro Ala Gly Ala Trp
 195 200 205

Arg Gly Ser Gly Leu Ala Leu Thr Leu Gln Pro Arg Gly Glu Asp Ser
 210 215 220

Arg Leu Ser Thr Ala Arg Leu Gln Ala Leu Leu Phe Gly Asp Asp His
 225 230 235 240

Arg Cys Phe Thr Arg Met Thr Pro Ala Leu Leu Leu Leu Pro Arg Ser
 245 250 255

Glu Pro Ala Pro Leu Pro Ala His Gly Gln Leu Asp Thr Val Pro Phe
 260 265 270

Pro Pro Pro Arg Pro Ser Ala Glu Leu Glu Glu Ser Pro Pro Ser Ala
 275 280 285

Asp Pro Phe Leu Glu Thr Leu Thr Arg Leu Val Arg Ala Leu Arg Val
 290 295 300

Pro Pro Ala Arg Ala Ser Ala Pro Arg Leu Ala Leu Asp Pro Asp Ala
 305 310 315 320

Leu Ala Gly Phe Pro Gln Gly Leu Val Asn Leu Ser Asp Pro Ala Ala
 325 330 335

Leu Glu Arg Leu Leu Asp Gly Glu Glu Pro Leu Leu Leu Leu Leu Arg
 340 345 350

Pro Thr Ala Ala Thr Thr Gly Asp Pro Ala Pro Leu His Asp Pro Thr
 355 360 365

Ser Ala Pro Trp Ala Thr Ala Leu Ala Arg Arg Val Ala Ala Glu Leu
 370 375 380

Gln Ala Ala Ala Ala Glu Leu Arg Ser Leu Pro Gly Leu Pro Pro Ala
 385 390 395 400

Thr Ala Pro Leu Leu Ala Arg Leu Leu Ala Leu Cys Pro Gly Gly Pro
 405 410 415

Gly Gly Leu Gly Asp Pro Leu Arg Ala Leu Leu Leu Leu Lys Ala Leu
 420 425 430

Gln Gly Leu Arg Val Glu Trp Arg Gly Arg Asp Pro Arg Gly Pro Gly
 435 440 445

Arg Ala Gln Arg Ser Ala Gly Ala Thr Ala Ala Asp Gly Pro Cys Ala
 450 455 460

Leu Arg Glu Leu Ser Val Asp Leu Arg Ala Glu Arg Ser Val Leu Ile
 465 470 475 480

Pro Glu Thr Tyr Gln Ala Asn Asn Cys Gln Gly Val Cys Gly Trp Pro
 485 490 495

Gln Ser Asp Arg Asn Pro Arg Tyr Gly Asn His Val Val Leu Leu Leu
 500 505 510

Lys Met Gln Ala Arg Gly Ala Ala Leu Ala Arg Pro Pro Cys Cys Val
 515 520 525

Pro Thr Ala Tyr Ala Gly Lys Leu Leu Ile Ser Leu Ser Glu Glu Arg
 530 535 540

Ile Ser Ala His His Val Pro Asn Met Val Ala Thr Glu Cys Gly Cys
 545 550 555 560

Arg

<210> 24
 <211> 397
 <212> PRT
 <213> Homo sapiens

<400> 24

Pro Met Val Ala Gly Thr Arg Cys Leu Leu Ala Leu Leu Leu Pro Gln
 1 5 10 15

Val Leu Leu Gly Gly Ala Ala Gly Leu Val Pro Glu Leu Gly Arg Arg
 20 25 30

Lys Phe Ala Ala Ala Ser Ser Gly Arg Pro Ser Ser Gln Pro Ser Asp
 35 40 45

Glu Val Leu Ser Glu Phe Glu Leu Arg Leu Leu Ser Met Phe Gly Leu
 50 55 60

Lys Gln Arg Pro Thr Pro Ser Arg Asp Ala Val Val Pro Pro Tyr Met
 65 70 75 80

Leu Asp Leu Tyr Arg Arg His Ser Gly Gln Pro Gly Ser Pro Ala Pro
 85 90 95

Asp His Arg Leu Glu Arg Ala Ala Ser Arg Ala Asn Thr Val Arg Ser
 100 105 110

Phe His His Glu Glu Ser Leu Glu Glu Leu Pro Glu Thr Ser Gly Lys
 115 120 125

Thr Thr Arg Arg Phe Phe Phe Asn Leu Ser Ser Ile Pro Thr Glu Glu
 130 135 140

Phe Ile Thr Ser Ala Glu Leu Gln Val Phe Arg Glu Gln Met Gln Asp
145 150 155 160

Ala Leu Gly Asn Asn Ser Ser Phe His His Arg Ile Asn Ile Tyr Glu
165 170 175

Ile Ile Lys Pro Ala Thr Ala Asn Ser Lys Phe Pro Val Thr Arg Leu
180 185 190

Leu Asp Thr Arg Leu Val Asn Gln Asn Ala Ser Arg Trp Glu Ser Phe
195 200 205

Asp Val Thr Pro Ala Val Met Arg Trp Thr Ala Gln Gly His Ala Asn
210 215 220

His Gly Phe Val Val Glu Val Ala His Leu Glu Glu Lys Gln Gly Val
225 230 235 240

Ser Lys Arg His Val Arg Ile Ser Arg Ser Leu His Gln Asp Glu His
245 250 255

Ser Trp Ser Gln Ile Arg Pro Leu Leu Val Thr Phe Gly His Asp Gly
260 265 270

Lys Gly His Pro Leu His Lys Arg Glu Lys Arg Gln Ala Lys His Lys
275 280 285

Gln Arg Lys Arg Leu Lys Ser Ser Cys Lys Arg His Pro Leu Tyr Val
290 295 300

Asp Phe Ser Asp Val Gly Trp Asn Asp Trp Ile Val Ala Pro Pro Gly
305 310 315 320

Tyr His Ala Phe Tyr Cys His Gly Glu Cys Pro Phe Pro Leu Ala Asp
325 330 335

His Leu Asn Ser Thr Asn His Ala Ile Val Gln Thr Leu Val Asn Ser
340 345 350

Val Asn Ser Lys Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser
355 360 365

Ala Ile Ser Met Leu Tyr Leu Asp Glu Asn Glu Lys Val Val Leu Lys
 370 375 380

Asn Tyr Gln Asp Met Val Val Glu Gly Cys Gly Cys Arg
 385 390 395

<210> 25
 <211> 473
 <212> PRT
 <213> Homo sapiens

<400> 25

Pro Met Ala Gly Ala Ser Arg Leu Leu Phe Leu Trp Leu Gly Cys Phe
 1 5 10 15

Cys Val Ser Leu Ala Gln Gly Glu Arg Pro Lys Pro Pro Phe Pro Glu
 20 25 30

Leu Arg Lys Ala Val Pro Gly Asp Arg Thr Ala Gly Gly Gly Pro Asp
 35 40 45

Ser Glu Leu Gln Pro Gln Asp Lys Val Ser Glu His Met Leu Arg Leu
 50 55 60

Tyr Asp Arg Tyr Ser Thr Val Gln Ala Ala Arg Thr Pro Gly Ser Leu
 65 70 75 80

Glu Gly Gly Ser Gln Pro Trp Arg Pro Arg Leu Leu Arg Glu Gly Asn
 85 90 95

Thr Val Arg Ser Phe Arg Ala Ala Ala Glu Thr Leu Glu Arg Lys
 100 105 110

Gly Leu Tyr Ile Phe Asn Leu Thr Ser Leu Thr Lys Ser Glu Asn Ile
 115 120 125

Leu Ser Ala Thr Leu Tyr Phe Cys Ile Gly Glu Leu Gly Asn Ile Ser
 130 135 140

Leu Ser Cys Pro Val Ser Gly Gly Cys Ser His His Ala Gln Arg Lys
 145 150 155 160

His Ile Gln Ile Asp Leu Ser Ala Trp Thr Leu Lys Phe Ser Arg Asn

Ser Gly Ala Cys Gln Phe Pro Met Pro Lys Ser Leu Lys Pro Ser Asn
 405 410 415

His Ala Thr Ile Gln Ser Ile Val Arg Ala Val Gly Val Val Pro Gly
 420 425 430

Ile Pro Glu Pro Cys Cys Val Pro Glu Lys Met Ser Ser Leu Ser Ile
 435 440 445

Leu Phe Phe Asp Glu Asn Lys Asn Val Val Leu Lys Val Tyr Pro Asn
 450 455 460

Met Thr Val Glu Ser Cys Ala Cys Arg
 465 470

<210> 26
 <211> 479
 <212> PRT
 <213> Homo sapiens

<400> 26

Pro Met Ala His Val Pro Ala Arg Thr Ser Pro Gly Pro Gly Pro Gln
 1 5 10 15

Leu Leu Leu Leu Leu Leu Pro Leu Phe Leu Leu Leu Leu Arg Asp Val
 20 25 30

Ala Gly Ser His Arg Ala Pro Ala Trp Ser Ala Leu Pro Ala Ala Ala
 35 40 45

Asp Gly Leu Gln Gly Asp Arg Asp Leu Gln Arg His Pro Gly Asp Ala
 50 55 60

Ala Ala Thr Leu Gly Pro Ser Ala Gln Asp Met Val Ala Val His Met
 65 70 75 80

His Arg Leu Tyr Glu Lys Tyr Ser Arg Gln Gly Ala Arg Pro Gly Gly
 85 90 95

Gly Asn Thr Val Arg Ser Phe Arg Ala Arg Leu Glu Val Val Asp Gln
 100 105 110

Lys Ala Val Tyr Phe Phe Asn Leu Thr Ser Met Gln Asp Ser Glu Met
 115 120 125

Ile Leu Thr Ala Thr Phe His Phe Tyr Ser Glu Pro Pro Arg Trp Pro
 130 135 140

Arg Ala Leu Glu Val Leu Cys Lys Pro Arg Ala Lys Asn Ala Ser Gly
 145 150 155 160

Arg Pro Leu Pro Leu Gly Pro Pro Thr Arg Gln His Leu Leu Phe Arg
 165 170 175

Ser Leu Ser Gln Asn Thr Ala Thr Gln Gly Leu Leu Arg Gly Ala Met
 180 185 190

Ala Leu Ala Pro Pro Pro Arg Gly Leu Trp Gln Ala Lys Asp Ile Ser
 195 200 205

Pro Ile Val Lys Ala Ala Arg Arg Asp Gly Glu Leu Leu Leu Ser Ala
 210 215 220

Gln Leu Asp Ser Glu Glu Arg Asp Pro Gly Val Pro Arg Pro Ser Pro
 225 230 235 240

Tyr Ala Pro Tyr Ile Leu Val Tyr Ala Asn Asp Leu Ala Ile Ser Glu
 245 250 255

Pro Asn Ser Val Ala Val Thr Leu Gln Arg Tyr Asp Pro Phe Pro Ala
 260 265 270

Gly Asp Pro Glu Pro Arg Ala Ala Pro Asn Asn Ser Ala Asp Pro Arg
 275 280 285

Val Arg Arg Ala Ala Gln Ala Thr Gly Pro Leu Gln Asp Asn Glu Leu
 290 295 300

Pro Gly Leu Asp Glu Arg Pro Pro Arg Ala His Ala Gln His Phe His
 305 310 315 320

Lys His Gln Leu Trp Pro Ser Pro Phe Arg Ala Leu Lys Pro Arg Pro
 325 330 335

Gly Arg Lys Asp Arg Arg Lys Lys Gly Gln Glu Val Phe Met Ala Ala

340 345 350
 Ser Gln Val Leu Asp Phe Asp Glu Lys Thr Met Gln Lys Ala Arg Arg
 355 360 365
 Lys Gln Trp Asp Glu Pro Arg Val Cys Ser Arg Arg Tyr Leu Lys Val
 370 375 380
 Asp Phe Ala Asp Ile Gly Trp Asn Glu Trp Ile Ile Ser Pro Lys Ser
 385 390 395 400
 Phe Asp Ala Tyr Tyr Cys Ala Gly Ala Cys Glu Phe Pro Met Pro Lys
 405 410 415
 Ile Val Arg Pro Ser Asn His Ala Thr Ile Gln Ser Ile Val Arg Ala
 420 425 430
 Val Gly Ile Ile Pro Gly Ile Pro Glu Pro Cys Cys Val Pro Asp Lys
 435 440 445
 Met Asn Ser Leu Gly Val Leu Phe Leu Asp Glu Asn Arg Asn Val Val
 450 455 460
 Leu Lys Val Tyr Pro Asn Met Ser Val Asp Thr Cys Ala Cys Arg
 465 470 475

 <210> 27
 <211> 409
 <212> PRT
 <213> Homo sapiens

 <400> 27

 Pro Met Ile Pro Gly Asn Arg Met Leu Met Val Val Leu Leu Cys Gln
 1 5 10 15

 Val Leu Leu Gly Gly Ala Ser His Ala Ser Leu Ile Pro Glu Thr Gly
 20 25 30

 Lys Lys Lys Val Ala Glu Ile Gln Gly His Ala Gly Gly Arg Arg Ser
 35 40 45

 Gly Gln Ser His Glu Leu Leu Arg Asp Phe Glu Ala Thr Leu Leu Gln
 50 55 60

Met Phe Gly Leu Arg Arg Arg Pro Gln Pro Ser Lys Ser Ala Val Ile
 65 70 75 80

Pro Asp Tyr Met Arg Asp Leu Tyr Arg Leu Gln Ser Gly Glu Glu Glu
 85 90 95

Glu Glu Gln Ile His Ser Thr Gly Leu Glu Tyr Pro Glu Arg Pro Ala
 100 105 110

Ser Arg Ala Asn Thr Val Arg Ser Phe His His Glu Glu His Leu Glu
 115 120 125

Asn Ile Pro Gly Thr Ser Glu Asn Ser Ala Phe Arg Phe Leu Phe Asn
 130 135 140

Leu Ser Ser Ile Pro Glu Asn Glu Ala Ile Ser Ser Ala Glu Leu Arg
 145 150 155 160

Leu Phe Arg Glu Gln Val Asp Gln Gly Pro Asp Trp Glu Arg Gly Phe
 165 170 175

His Arg Ile Asn Ile Tyr Glu Val Met Lys Pro Pro Ala Glu Val Val
 180 185 190

Pro Gly His Leu Ile Thr Arg Leu Leu Asp Thr Arg Leu Val His His
 195 200 205

Asn Val Thr Arg Trp Glu Thr Phe Asp Val Ser Pro Ala Val Leu Arg
 210 215 220

Trp Thr Arg Glu Lys Gln Pro Asn Tyr Gly Leu Ala Ile Glu Val Thr
 225 230 235 240

His Leu His Gln Thr Arg Thr His Gln Gly Gln His Val Arg Ile Ser
 245 250 255

Arg Ser Leu Pro Gln Gly Ser Gly Asn Trp Ala Gln Leu Arg Pro Leu
 260 265 270

Leu Val Thr Phe Gly His Asp Gly Arg Gly His Ala Leu Thr Arg Arg
 275 280 285

Arg Arg Ala Lys Arg Ser Pro Lys His His Ser Gln Arg Ala Arg Lys
 290 295 300

Lys Asn Lys Asn Cys Arg Arg His Ser Leu Tyr Val Asp Phe Ser Asp
 305 310 315 320

Val Gly Trp Asn Asp Trp Ile Val Ala Pro Pro Gly Tyr Gln Ala Phe
 325 330 335

Tyr Cys His Gly Asp Cys Pro Phe Pro Leu Ala Asp His Leu Asn Ser
 340 345 350

Thr Asn His Ala Ile Val Gln Thr Leu Val Asn Ser Val Asn Ser Ser
 355 360 365

Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser Met
 370 375 380

Leu Tyr Leu Asp Glu Tyr Asp Lys Val Val Leu Lys Asn Tyr Gln Glu
 385 390 395 400

Met Val Val Glu Gly Cys Gly Cys Arg
 405

<210> 28
 <211> 455
 <212> PRT
 <213> Homo sapiens

<400> 28

Pro Met His Leu Thr Val Phe Leu Leu Lys Gly Ile Val Gly Phe Leu
 1 5 10 15

Trp Ser Cys Trp Val Leu Val Gly Tyr Ala Lys Gly Gly Leu Gly Asp
 20 25 30

Asn His Val His Ser Ser Phe Ile Tyr Arg Arg Leu Arg Asn His Glu
 35 40 45

Arg Arg Glu Ile Gln Arg Glu Ile Leu Ser Ile Leu Gly Leu Pro His
 50 55 60

Arg Pro Arg Pro Phe Ser Pro Gly Lys Gln Ala Ser Ser Ala Pro Leu
 65 70 75 80

Phe Met Leu Asp Leu Tyr Asn Ala Met Thr Asn Glu Glu Asn Pro Glu
85 90 95

Glu Ser Glu Tyr Ser Val Arg Ala Ser Leu Ala Glu Glu Thr Arg Gly
100 105 110

Ala Arg Lys Gly Tyr Pro Ala Ser Pro Asn Gly Tyr Pro Arg Arg Ile
115 120 125

Gln Leu Ser Arg Thr Thr Pro Leu Thr Thr Gln Ser Pro Pro Leu Ala
130 135 140

Ser Leu His Asp Thr Asn Phe Leu Asn Asp Ala Asp Met Val Met Ser
145 150 155 160

Phe Val Asn Leu Val Glu Arg Asp Lys Asp Phe Ser His Gln Arg Arg
165 170 175

His Tyr Lys Glu Phe Arg Phe Asp Leu Thr Gln Ile Pro His Gly Glu
180 185 190

Ala Val Thr Ala Ala Glu Phe Arg Ile Tyr Lys Asp Arg Ser Asn Asn
195 200 205

Arg Phe Glu Asn Glu Thr Ile Lys Ile Ser Ile Tyr Gln Ile Ile Lys
210 215 220

Glu Tyr Thr Asn Arg Asp Ala Asp Leu Phe Leu Leu Asp Thr Arg Lys
225 230 235 240

Ala Gln Ala Leu Asp Val Gly Trp Leu Val Phe Asp Ile Thr Val Thr
245 250 255

Ser Asn His Trp Val Ile Asn Pro Gln Asn Asn Leu Gly Leu Gln Leu
260 265 270

Cys Ala Glu Thr Gly Asp Gly Arg Ser Ile Asn Val Lys Ser Ala Gly
275 280 285

Leu Val Gly Arg Gln Gly Pro Gln Ser Lys Gln Pro Phe Met Val Ala
290 295 300

Phe Phe Lys Ala Ser Glu Val Leu Leu Arg Ser Val Arg Ala Ala Asn
 305 310 315 320

Lys Arg Lys Asn Gln Asn Arg Asn Lys Ser Ser Ser His Gln Asp Ser
 325 330 335

Ser Arg Met Ser Ser Val Gly Asp Tyr Asn Thr Ser Glu Gln Lys Gln
 340 345 350

Ala Cys Lys Lys His Glu Leu Tyr Val Ser Phe Arg Asp Leu Gly Trp
 355 360 365

Gln Asp Trp Ile Ile Ala Pro Glu Gly Tyr Ala Ala Phe Tyr Cys Asp
 370 375 380

Gly Glu Cys Ser Phe Pro Leu Asn Ala His Met Asn Ala Thr Asn His
 385 390 395 400

Ala Ile Val Gln Thr Leu Val His Leu Met Phe Pro Asp His Val Pro
 405 410 415

Lys Pro Cys Cys Ala Pro Thr Lys Leu Asn Ala Ile Ser Val Leu Tyr
 420 425 430

Phe Asp Asp Ser Ser Asn Val Ile Leu Lys Lys Tyr Arg Asn Met Val
 435 440 445

Val Arg Ser Cys Gly Cys His
 450 455

<210> 29
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 29

Pro Ser Ser Ala Ser Asp Tyr Asn Ser Ser Glu Leu Lys Thr Ala Cys
 1 5 10 15

Arg Lys His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Gln Trp
 20 25 30

Ile Ile Ala Pro Lys Gly Tyr Ala Ala Asn Tyr Cys Asp Gly Glu Cys

35 40 45
 Ser Pro Pro Leu Asn His Thr Ala Asn His Ala Ile Val Gln Thr Leu
 50 55 60
 Val His Leu Met Asn Pro Glu Tyr Val Pro Lys Pro Cys Cys Ala Pro
 65 70 75 80
 Thr Lys Leu Asn Ala Ile Ser Val Leu Tyr Phe Asp Asp Asn Ser Asn
 85 90 95
 Val Ile Lys Lys Tyr Arg Asn Met Val Val Arg Ala Cys Gly Cys His
 100 105 110
 <210> 30
 <211> 112
 <212> PRT
 <213> Homo sapiens
 <400> 30
 Pro Ala Asn Val Ala Glu Asn Ser Ser Ser Asp Gln Arg Gln Ala Cys
 1 5 10 15
 Lys Lys His Glu Leu Tyr Val Ser Phe Arg Asp Leu Gly Trp Gln Trp
 20 25 30
 Ile Ile Ala Pro Glu Gly Tyr Ala Ala Tyr Tyr Cys Glu Gly Glu Cys
 35 40 45
 Ala Phe Pro Leu Asn Ser Ala Thr Asn His Ala Ile Val Gln Thr Leu
 50 55 60
 Val His Phe Ile Asn Pro Glu Thr Val Pro Lys Pro Cys Cys Ala Pro
 65 70 75 80
 Thr Gln Leu Asn Ala Ile Ser Val Leu Tyr Phe Asp Asp Ser Ser Asn
 85 90 95
 Val Ile Lys Lys Tyr Arg Asn Met Val Val Arg Ala Cys Gly Cys His
 100 105 110
 <210> 31
 <211> 403
 <212> PRT

<213> Homo sapiens

<400> 31

Pro Met Thr Ala Leu Pro Gly Pro Leu Trp Leu Leu Gly Leu Ala Leu
1 5 10 15

Cys Ala Leu Gly Gly Gly Gly Pro Gly Leu Arg Pro Pro Pro Gly Cys
20 25 30

Pro Gln Arg Arg Leu Gly Ala Arg Glu Arg Arg Asp Val Gln Arg Glu
35 40 45

Ile Leu Ala Val Leu Gly Leu Pro Gly Arg Pro Arg Pro Arg Ala Pro
50 55 60

Pro Ala Ala Ser Arg Leu Pro Ala Ser Ala Pro Leu Phe Met Leu Asp
65 70 75 80

Leu Tyr His Ala Met Ala Gly Asp Asp Asp Glu Asp Gly Ala Pro Ala
85 90 95

Glu Arg Arg Leu Gly Arg Ala Asp Leu Val Met Ser Phe Val Asn Met
100 105 110

Val Glu Arg Asp Arg Ala Leu Gly His Gln Glu Pro His Trp Lys Glu
115 120 125

Phe Arg Phe Asp Leu Thr Gln Ile Pro Ala Gly Glu Ala Val Thr Ala
130 135 140

Ala Glu Phe Arg Ile Tyr Lys Val Pro Ser Ile His Leu Leu Asn Arg
145 150 155 160

Thr Leu His Val Ser Met Phe Gln Val Val Gln Glu Gln Ser Asn Arg
165 170 175

Glu Ser Asp Leu Phe Phe Leu Asp Leu Gln Thr Leu Arg Ala Gly Asp
180 185 190

Glu Gly Trp Leu Val Leu Asp Val Thr Ala Ala Ser Asp Cys Trp Leu
195 200 205

Leu Lys Arg His Lys Asp Leu Gly Leu Arg Leu Tyr Val Glu Thr Glu

210	215	220
Asp Gly His Ser Val Asp Pro Gly Leu Ala Gly Leu Leu Gly Gln Arg		
225	230	235 240
Ala Pro Arg Ser Gln Gln Pro Phe Val Val Thr Phe Phe Arg Ala Ser		
	245	250 255
Pro Ser Pro Ile Arg Thr Pro Arg Ala Val Arg Pro Leu Arg Arg Arg		
	260	265 270
Gln Pro Lys Lys Ser Asn Glu Leu Pro Gln Ala Asn Arg Leu Pro Gly		
	275	280 285
Ile Phe Asp Asp Val His Gly Ser His Gly Arg Gln Val Cys Arg Arg		
	290	295 300
His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Leu Asp Trp Val		
305	310	315 320
Ile Ala Pro Gln Gly Tyr Ser Ala Tyr Tyr Cys Glu Gly Glu Cys Ser		
	325	330 335
Phe Pro Leu Asp Ser Cys Met Asn Ala Thr Asn His Ala Ile Leu Gln		
	340	345 350
Ser Leu Val His Leu Met Lys Pro Asn Ala Val Pro Lys Ala Cys Cys		
	355	360 365
Ala Pro Thr Lys Leu Ser Ala Thr Ser Val Leu Tyr Tyr Asp Ser Ser		
	370	375 380
Asn Asn Val Ile Leu Arg Lys His Arg Asn Met Val Val Lys Ala Cys		
385	390	395 400
Gly Cys His		

<210> 32
 <211> 425
 <212> PRT
 <213> Homo sapiens

 <400> 32

Pro Met Gly Ser Leu Val Leu Thr Leu Cys Ala Leu Phe Cys Leu Ala
 1 5 10 15
 Ala Tyr Leu Val Ser Gly Ser Pro Ile Met Asn Leu Glu Gln Ser Pro
 20 25 30
 Leu Glu Glu Asp Met Ser Leu Phe Gly Asp Val Phe Ser Glu Gln Asp
 35 40 45
 Gly Val Asp Phe Asn Thr Leu Leu Gln Ser Met Lys Asp Glu Phe Leu
 50 55 60
 Lys Thr Leu Asn Leu Ser Asp Ile Pro Thr Gln Asp Ser Ala Lys Val
 65 70 75 80
 Asp Pro Pro Glu Tyr Met Leu Glu Leu Tyr Asn Lys Phe Ala Thr Asp
 85 90 95
 Arg Thr Ser Met Pro Ser Ala Asn Ile Ile Arg Ser Phe Lys Asn Glu
 100 105 110
 Asp Leu Phe Ser Gln Pro Val Ser Phe Asn Gly Leu Arg Lys Tyr Pro
 115 120 125
 Leu Leu Phe Asn Val Ser Ile Pro His His Glu Glu Val Ile Met Ala
 130 135 140
 Glu Leu Arg Leu Tyr Thr Leu Val Gln Arg Asp Arg Met Ile Tyr Asp
 145 150 155 160
 Gly Val Asp Arg Lys Ile Thr Ile Phe Glu Val Leu Glu Ser Lys Gly
 165 170 175
 Asp Asn Glu Gly Glu Arg Asn Met Leu Val Leu Val Ser Gly Glu Ile
 180 185 190
 Tyr Gly Thr Asn Ser Glu Trp Glu Thr Phe Asp Val Thr Asp Ala Ile
 195 200 205
 Arg Arg Trp Gln Lys Ser Gly Ser Ser Thr His Gln Leu Glu Val His
 210 215 220

Ile Glu Ser Lys His Asp Glu Ala Glu Asp Ala Ser Ser Gly Arg Leu
 225 230 235 240

Glu Ile Asp Thr Ser Ala Gln Asn Lys His Asn Pro Leu Leu Ile Val
 245 250 255

Phe Ser Asp Asp Gln Ser Ser Asp Lys Glu Arg Lys Glu Glu Leu Asn
 260 265 270

Glu Met Ile Ser His Glu Gln Leu Pro Glu Leu Asp Asn Leu Gly Leu
 275 280 285

Asp Ser Phe Ser Ser Gly Pro Gly Glu Glu Ala Leu Leu Gln Met Arg
 290 295 300

Ser Asn Ile Ile Tyr Asp Ser Thr Ala Arg Ile Arg Arg Asn Ala Lys
 305 310 315 320

Gly Asn Tyr Cys Lys Arg Thr Pro Leu Tyr Ile Asp Phe Lys Glu Ile
 325 330 335

Gly Trp Asp Ser Trp Ile Ile Ala Pro Pro Gly Tyr Glu Ala Tyr Glu
 340 345 350

Cys Arg Gly Val Cys Asn Tyr Pro Leu Ala Glu His Leu Thr Pro Thr
 355 360 365

Lys His Ala Ile Ile Gln Ala Leu Val His Leu Lys Asn Ser Gln Lys
 370 375 380

Ala Ser Lys Ala Cys Cys Val Pro Thr Lys Leu Glu Pro Ile Ser Ile
 385 390 395 400

Leu Tyr Leu Asp Lys Gly Val Val Thr Tyr Lys Phe Lys Tyr Glu Gly
 405 410 415

Met Ala Val Ser Glu Cys Gly Cys Arg
 420 425

<210> 33
 <211> 408
 <212> PRT
 <213> Homo sapiens

<400> 33

Pro Met Val Leu Ala Ala Pro Leu Leu Leu Gly Phe Leu Leu Leu Ala
1 5 10 15

Leu Glu Leu Arg Pro Arg Gly Glu Ala Ala Glu Gly Pro Ala Ala Ala
20 25 30

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Val Gly Gly Glu Arg
35 40 45

Ser Ser Arg Pro Ala Pro Ser Val Ala Pro Glu Pro Asp Gly Cys Pro
50 55 60

Val Cys Val Trp Arg Gln His Ser Arg Glu Leu Arg Leu Glu Ser Ile
65 70 75 80

Lys Ser Gln Ile Leu Ser Lys Leu Arg Leu Lys Glu Ala Pro Asn Ile
85 90 95

Ser Arg Glu Val Val Lys Gln Leu Leu Pro Lys Ala Pro Pro Leu Gln
100 105 110

Gln Ile Leu Asp Leu His Asp Phe Gln Gly Asp Ala Leu Gln Pro Glu
115 120 125

Asp Phe Leu Glu Glu Asp Glu Tyr His Ala Thr Thr Glu Thr Val Ile
130 135 140

Ser Met Ala Gln Glu Thr Asp Pro Ala Val Gln Thr Asp Gly Ser Pro
145 150 155 160

Leu Cys Cys His Phe His Phe Ser Pro Lys Val Met Phe Thr Lys Val
165 170 175

Leu Lys Ala Gln Leu Trp Val Tyr Leu Arg Pro Val Pro Arg Pro Ala
180 185 190

Thr Val Tyr Leu Gln Ile Leu Arg Leu Lys Pro Leu Thr Gly Glu Gly
195 200 205

Thr Ala Gly Gly Gly Gly Gly Gly Arg Arg His Ile Arg Ile Arg Ser
210 215 220

Leu Lys Ile Glu Leu His Ser Arg Ser Gly His Trp Gln Ser Ile Asp
 225 230 235 240

Phe Lys Gln Val Leu His Ser Trp Phe Arg Gln Pro Gln Ser Asn Trp
 245 250 255

Gly Ile Glu Ile Asn Ala Phe Asp Pro Ser Gly Thr Asp Leu Ala Val
 260 265 270

Thr Ser Leu Gly Pro Gly Ala Glu Gly Leu His Pro Phe Met Glu Leu
 275 280 285

Arg Val Leu Glu Asn Thr Lys Arg Ser Arg Arg Asn Leu Gly Leu Asp
 290 295 300

Cys Asp Glu His Ser Ser Glu Ser Arg Cys Cys Arg Tyr Pro Leu Thr
 305 310 315 320

Val Asp Phe Glu Ala Phe Gly Trp Asp Trp Ile Ile Ala Pro Lys Arg
 325 330 335

Tyr Lys Ala Asn Tyr Cys Ser Gly Gln Cys Glu Tyr Met Phe Met Gln
 340 345 350

Lys Tyr Pro His Thr His Leu Val Gln Gln Ala Asn Pro Arg Gly Ser
 355 360 365

Ala Gly Pro Cys Cys Thr Pro Thr Lys Met Ser Pro Ile Asn Met Leu
 370 375 380

Tyr Phe Asn Asp Lys Gln Gln Ile Ile Tyr Gly Lys Ile Pro Gly Met
 385 390 395 400

Val Val Asp Arg Cys Gly Cys Ser
 405

<210> 34
 <211> 393
 <212> PRT
 <213> Homo sapiens

<400> 34

Pro Met Val Leu Leu Ser Ile Leu Arg Ile Leu Phe Leu Cys Glu Leu

1	5	10	15												
Val	Leu	Phe	Met	Glu	His	Arg	Ala	Gln	Met	Ala	Glu	Gly	Gly	Gln	Ser
			20					25					30		
Phe	Ile	Ala	Leu	Leu	Ala	Glu	Ala	Pro	Thr	Leu	Pro	Leu	Ile	Glu	Glu
		35					40					45			
Met	Leu	Glu	Glu	Ser	Pro	Gly	Glu	Gln	Pro	Arg	Lys	Pro	Arg	Leu	Leu
	50					55					60				
Gly	His	Ser	Leu	Arg	Tyr	Met	Leu	Glu	Leu	Tyr	Arg	Arg	Ser	Ala	Asp
65					70					75					80
Ser	His	Gly	His	Pro	Arg	Glu	Asn	Arg	Thr	Ile	Gly	Ala	Thr	Met	Val
				85					90					95	
Arg	Leu	Val	Lys	Pro	Leu	Thr	Ser	Val	Ala	Arg	Pro	His	Arg	Gly	Thr
			100					105						110	
Trp	His	Ile	Gln	Ile	Leu	Gly	Phe	Pro	Leu	Arg	Pro	Asn	Arg	Gly	Leu
		115					120						125		
Tyr	Gln	Leu	Val	Arg	Ala	Thr	Val	Val	Tyr	Arg	His	His	Leu	Gln	Leu
	130					135					140				
Thr	Arg	Phe	Asn	Leu	Ser	Cys	His	Val	Glu	Pro	Trp	Val	Gln	Lys	Asn
145					150					155					160
Pro	Thr	Asn	His	Phe	Pro	Ser	Ser	Glu	Gly	Asp	Ser	Ser	Lys	Pro	Ser
				165					170					175	
Leu	Met	Ser	Asn	Ala	Trp	Lys	Glu	Met	Asp	Ile	Thr	Gln	Leu	Val	Gln
			180					185					190		
Gln	Arg	Phe	Trp	Asn	Asn	Lys	Gly	His	Arg	Ile	Leu	Arg	Leu	Arg	Phe
		195					200						205		
Met	Cys	Gln	Gln	Gln	Lys	Asp	Ser	Gly	Gly	Leu	Glu	Leu	Trp	His	Gly
	210					215					220				
Thr	Ser	Ser	Leu	Asp	Ile	Ala	Phe	Leu	Leu	Leu	Tyr	Phe	Asn	Asp	Thr
225					230					235					240

His Lys Ser Ile Arg Lys Ala Lys Phe Leu Pro Arg Gly Met Glu Glu
245 250 255

Phe Met Glu Arg Glu Ser Leu Leu Arg Arg Thr Arg Gln Ala Asp Gly
260 265 270

Ile Ser Ala Glu Val Thr Ala Ser Ser Ser Lys His Ser Gly Pro Glu
275 280 285

Asn Asn Gln Cys Ser Leu His Pro Phe Gln Ile Ser Phe Arg Gln Leu
290 295 300

Gly Trp Asp His Trp Ile Ile Ala Pro Pro Phe Tyr Thr Pro Asn Tyr
305 310 315 320

Cys Lys Gly Thr Cys Leu Arg Val Leu Arg Asp Gly Leu Asn Ser Pro
325 330 335

Asn His Ala Ile Ile Gln Asn Leu Ile Asn Gln Leu Val Asp Gln Ser
340 345 350

Val Pro Arg Pro Ser Cys Val Pro Tyr Lys Tyr Val Pro Ile Ser Val
355 360 365

Leu Met Ile Glu Ala Asn Gly Ser Ile Leu Tyr Lys Glu Tyr Glu Gly
370 375 380

Met Ile Ala Glu Ser Cys Thr Cys Arg
385 390

<210> 35
<211> 134
<212> PRT
<213> Homo sapiens

<400> 35

Pro Met Arg Lys His Val Leu Ala Ala Ser Phe Ser Met Leu Ser Leu
1 5 10 15

Leu Val Ile Met Gly Asp Thr Asp Ser Lys Thr Asp Ser Ser Phe Ile
20 25 30

Met Asp Ser Asp Pro Arg Arg Cys Met Arg His His Tyr Val Asp Ser
 35 40 45

Ile Ser His Pro Leu Tyr Lys Cys Ser Ser Lys Met Val Leu Leu Ala
 50 55 60

Arg Cys Glu Gly His Cys Ser Gln Ala Ser Arg Ser Glu Pro Leu Val
 65 70 75 80

Ser Phe Ser Thr Val Leu Lys Gln Pro Phe Arg Ser Ser Cys His Cys
 85 90 95

Cys Arg Pro Gln Thr Ser Lys Leu Lys Ala Leu Arg Leu Arg Cys Ser
 100 105 110

Gly Gly Met Arg Leu Thr Ala Thr Tyr Arg Tyr Ile Leu Ser Cys His
 115 120 125

Cys Glu Glu Cys Asn Ser
 130

<210> 36
 <211> 373
 <212> PRT
 <213> Homo sapiens

<400> 36

Pro Met Pro Pro Pro Gln Gln Gly Pro Cys Gly His His Leu Leu Leu
 1 5 10 15

Leu Leu Ala Leu Leu Leu Pro Ser Leu Pro Leu Thr Arg Ala Pro Val
 20 25 30

Pro Pro Gly Pro Ala Ala Ala Leu Leu Gln Ala Leu Gly Leu Arg Asp
 35 40 45

Glu Pro Gln Gly Ala Pro Arg Leu Arg Pro Val Pro Pro Val Met Trp
 50 55 60

Arg Leu Phe Arg Arg Arg Asp Pro Gln Glu Thr Arg Ser Gly Ser Arg
 65 70 75 80

Arg Thr Ser Pro Gly Val Thr Leu Gln Pro Cys His Val Glu Glu Leu
 85 90 95

Gly Val Ala Gly Asn Ile Val Arg His Ile Pro Asp Arg Gly Ala Pro
 100 105 110

Thr Arg Ala Ser Glu Pro Val Ser Ala Ala Gly His Cys Pro Glu Trp
 115 120 125

Thr Val Val Phe Asp Leu Ser Ala Val Glu Pro Ala Glu Arg Pro Ser
 130 135 140

Arg Ala Arg Leu Glu Leu Arg Phe Ala Ala Ala Ala Ala Ala Ala Pro
 145 150 155 160

Glu Gly Gly Trp Glu Leu Ser Val Ala Gln Ala Gly Gln Gly Ala Gly
 165 170 175

Ala Asp Pro Gly Pro Val Leu Leu Arg Gln Leu Val Pro Ala Leu Gly
 180 185 190

Pro Pro Val Arg Ala Glu Leu Leu Gly Ala Ala Trp Ala Arg Asn Ala
 195 200 205

Ser Trp Pro Arg Ser Leu Arg Leu Ala Leu Ala Leu Arg Pro Arg Ala
 210 215 220

Pro Ala Ala Cys Ala Arg Leu Ala Glu Ala Ser Leu Leu Leu Val Thr
 225 230 235 240

Leu Asp Pro Arg Leu Cys His Pro Leu Ala Arg Pro Arg Arg Asp Ala
 245 250 255

Glu Pro Val Leu Gly Gly Gly Pro Gly Gly Ala Cys Arg Ala Arg Arg
 260 265 270

Leu Tyr Val Ser Phe Arg Glu Val Gly Trp His Arg Trp Val Ile Ala
 275 280 285

Pro Arg Gly Phe Leu Ala Asn Tyr Cys Gln Gly Gln Cys Ala Leu Pro
 290 295 300

Val Ala Leu Ser Gly Ser Gly Gly Pro Pro Ala Leu Asn His Ala Val
 305 310 315 320

Leu Arg Ala Leu Met His Ala Ala Ala Pro Gly Ala Ala Asp Leu Pro
 . 325 330 335

Cys Cys Val Pro Ala Arg Leu Ser Pro Ile Ser Val Leu Phe Phe Asp
 340 345 350

Asn Ser Asp Asn Val Val Leu Arg Gln Tyr Glu Asp Met Val Val Asp
 355 360 365

Glu Cys Gly Cys Arg
 370

<210> 37
 <211> 502
 <212> PRT
 <213> Homo sapiens
 <400> 37

Pro Met Arg Leu Pro Lys Leu Leu Thr Phe Leu Leu Trp Tyr Leu Ala
 1 5 10 15

Trp Leu Asp Leu Glu Phe Ile Cys Thr Val Leu Gly Ala Pro Asp Leu
 20 25 30

Gly Gln Arg Pro Gln Gly Ser Arg Pro Gly Leu Ala Lys Ala Glu Ala
 35 40 45

Lys Glu Arg Pro Pro Leu Ala Arg Asn Val Phe Arg Pro Gly Gly His
 50 55 60

Ser Tyr Gly Gly Gly Ala Thr Asn Ala Asn Ala Arg Ala Lys Gly Gly
 65 70 75 80

Thr Gly Gln Thr Gly Gly Leu Thr Gln Pro Lys Lys Asp Glu Pro Lys
 85 90 95

Lys Leu Pro Pro Arg Pro Gly Gly Pro Glu Pro Lys Pro Gly His Pro
 100 105 110

Pro Gln Thr Arg Gln Ala Thr Ala Arg Thr Val Thr Pro Lys Gly Gln
 115 120 125

Leu Pro Gly Gly Lys Ala Pro Pro Lys Ala Gly Ser Val Pro Ser Ser

130		135		140											
Phe	Leu	Leu	Lys	Lys	Ala	Arg	Glu	Pro	Gly	Pro	Pro	Arg	Glu	Pro	Lys
145					150					155					160
Glu	Pro	Phe	Arg	Pro	Pro	Pro	Ile	Thr	Pro	His	Glu	Tyr	Met	Leu	Ser
				165					170					175	
Leu	Tyr	Arg	Thr	Leu	Ser	Asp	Ala	Asp	Arg	Lys	Gly	Gly	Asn	Ser	Ser
			180					185					190		
Val	Lys	Leu	Glu	Ala	Gly	Leu	Ala	Asn	Thr	Ile	Thr	Ser	Phe	Ile	Asp
	195						200					205			
Lys	Gly	Gln	Asp	Asp	Arg	Gly	Pro	Val	Val	Arg	Lys	Gln	Arg	Tyr	Val
	210					215					220				
Phe	Asp	Ile	Ser	Ala	Leu	Glu	Lys	Asp	Gly	Leu	Leu	Gly	Ala	Glu	Leu
225					230					235					240
Arg	Ile	Leu	Arg	Lys	Lys	Pro	Ser	Asp	Thr	Ala	Lys	Pro	Ala	Val	Pro
				245					250					255	
Arg	Ser	Arg	Arg	Ala	Ala	Gln	Leu	Lys	Leu	Ser	Ser	Cys	Pro	Ser	Gly
			260					265					270		
Arg	Gln	Pro	Ala	Ala	Leu	Leu	Asp	Val	Arg	Ser	Val	Pro	Gly	Leu	Asp
	275						280					285			
Gly	Ser	Gly	Trp	Glu	Val	Phe	Asp	Ile	Trp	Lys	Leu	Phe	Arg	Asn	Phe
	290					295					300				
Lys	Asn	Ser	Ala	Gln	Leu	Cys	Leu	Glu	Leu	Glu	Ala	Trp	Glu	Arg	Gly
305					310					315					320
Arg	Thr	Val	Asp	Leu	Arg	Gly	Leu	Gly	Phe	Asp	Arg	Ala	Ala	Arg	Gln
				325					330					335	
Val	His	Glu	Lys	Ala	Leu	Phe	Leu	Val	Phe	Gly	Arg	Thr	Lys	Lys	Arg
			340					345					350		
Asp	Leu	Phe	Phe	Asn	Glu	Ile	Lys	Ala	Arg	Ser	Gly	Gln	Asp	Asp	Lys
	355						360					365			

Thr Val Tyr Glu Tyr Leu Phe Ser Gln Arg Arg Lys Arg Arg Ala Pro
 370 375 380

Ser Ala Thr Arg Gln Gly Lys Arg Pro Ser Lys Asn Leu Lys Ala Arg
 385 390 395 400

Cys Ser Arg Lys Ala Leu His Val Asn Phe Lys Asp Met Gly Trp Asp
 405 410 415

Asp Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu Gly
 420 425 430

Leu Cys Glu Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His Ala
 435 440 445

Val Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro Pro
 450 455 460

Thr Cys Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe Ile
 465 470 475 480

Asp Ser Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val Val
 485 490 495

Glu Ser Cys Gly Cys Arg
 500

<210> 38
 <211> 376
 <212> PRT
 <213> Homo sapiens

<400> 38

Pro Met Gln Lys Leu Gln Leu Cys Val Tyr Ile Tyr Leu Phe Met Leu
 1 5 10 15

Ile Val Ala Gly Pro Val Asp Leu Asn Glu Asn Ser Glu Gln Lys Glu
 20 25 30

Asn Val Glu Lys Glu Gly Leu Cys Asn Ala Cys Thr Trp Arg Gln Asn
 35 40 45

Thr Lys Ser Ser Arg Ile Glu Ala Ile Lys Ile Gln Ile Leu Ser Lys
 50 55 60

Leu Arg Leu Glu Thr Ala Pro Asn Ile Ser Lys Asp Val Ile Arg Gln
 65 70 75 80

Leu Leu Pro Lys Ala Pro Pro Leu Arg Glu Leu Ile Asp Gln Tyr Asp
 85 90 95

Val Gln Arg Asp Asp Ser Ser Asp Gly Ser Leu Glu Asp Asp Asp Tyr
 100 105 110

His Ala Thr Thr Glu Thr Ile Ile Thr Met Pro Thr Glu Ser Asp Phe
 115 120 125

Leu Met Gln Val Asp Gly Lys Pro Lys Cys Cys Phe Phe Lys Phe Ser
 130 135 140

Ser Lys Ile Gln Tyr Asn Lys Val Val Lys Ala Gln Leu Trp Ile Tyr
 145 150 155 160

Leu Arg Pro Val Glu Thr Pro Thr Thr Val Phe Val Gln Ile Leu Arg
 165 170 175

Leu Ile Lys Pro Met Lys Asp Gly Thr Arg Tyr Thr Gly Ile Arg Ser
 180 185 190

Leu Lys Leu Asp Met Asn Pro Gly Thr Gly Ile Trp Gln Ser Ile Asp
 195 200 205

Val Lys Thr Val Leu Gln Asn Trp Leu Lys Gln Pro Glu Ser Asn Leu
 210 215 220

Gly Ile Glu Ile Lys Ala Leu Asp Glu Asn Gly His Asp Leu Ala Val
 225 230 235 240

Thr Phe Pro Gly Pro Gly Glu Asp Gly Leu Asn Pro Phe Leu Glu Val
 245 250 255

Lys Val Thr Asp Thr Pro Lys Arg Ser Arg Arg Asp Phe Gly Leu Asp
 260 265 270

Cys Asp Glu His Ser Thr Glu Ser Arg Cys Cys Arg Tyr Pro Leu Thr

275 280 285
 Val Asp Phe Glu Ala Phe Gly Trp Asp Trp Ile Ile Ala Pro Lys Arg
 290 295 300
 Tyr Lys Ala Asn Tyr Cys Ser Gly Glu Cys Glu Phe Val Phe Leu Gln
 305 310 315 320
 Lys Tyr Pro His Thr His Leu Val His Gln Ala Asn Pro Arg Gly Ser
 325 330 335
 Ala Gly Pro Cys Cys Thr Pro Thr Lys Met Ser Pro Ile Asn Met Leu
 340 345 350
 Tyr Phe Asn Gly Lys Glu Gln Ile Ile Tyr Gly Lys Ile Pro Ala Met
 355 360 365
 Val Val Asp Arg Cys Gly Cys Ser
 370 375
 <210> 39
 <211> 455
 <212> PRT
 <213> Homo sapiens
 <400> 39
 Pro Met Ala Arg Pro Asn Lys Phe Leu Leu Trp Phe Cys Cys Phe Ala
 1 5 10 15
 Trp Leu Cys Phe Pro Ile Ser Leu Gly Ser Gln Ala Ser Gly Gly Glu
 20 25 30
 Ala Gln Ile Ala Ala Ser Ala Glu Leu Glu Ser Gly Ala Met Pro Trp
 35 40 45
 Ser Leu Leu Gln His Ile Asp Glu Arg Asp Arg Ala Gly Leu Leu Pro
 50 55 60
 Ala Leu Phe Lys Val Leu Ser Val Gly Arg Gly Gly Ser Pro Arg Leu
 65 70 75 80
 Gln Pro Asp Ser Arg Ala Leu His Tyr Met Lys Lys Leu Tyr Lys Thr
 85 90 95

Tyr Ala Thr Lys Glu Gly Ile Pro Lys Ser Asn Arg Ser His Leu Tyr
 100 105 110

Asn Thr Val Arg Leu Phe Thr Pro Cys Thr Arg His Lys Gln Ala Pro
 115 120 125

Gly Asp Gln Val Thr Gly Ile Leu Pro Ser Val Glu Leu Leu Phe Asn
 130 135 140

Leu Asp Arg Ile Thr Thr Val Glu His Leu Leu Lys Ser Val Leu Leu
 145 150 155 160

Tyr Asn Ile Asn Asn Ser Val Ser Phe Ser Ser Ala Val Lys Cys Val
 165 170 175

Cys Asn Leu Met Ile Lys Glu Pro Lys Ser Ser Ser Arg Thr Leu Gly
 180 185 190

Arg Ala Pro Tyr Ser Phe Thr Phe Asn Ser Gln Phe Glu Phe Gly Lys
 195 200 205

Lys His Lys Trp Ile Gln Ile Asp Val Thr Ser Leu Leu Gln Pro Leu
 210 215 220

Val Ala Ser Asn Lys Arg Ser Ile His Met Ser Ile Asn Phe Thr Cys
 225 230 235 240

Met Lys Asp Gln Leu Glu His Pro Ser Ala Gln Asn Gly Leu Phe Asn
 245 250 255

Met Thr Leu Val Ser Pro Ser Leu Ile Leu Tyr Leu Asn Asp Thr Ser
 260 265 270

Ala Gln Ala Tyr His Ser Trp Tyr Ser Leu His Tyr Lys Arg Arg Pro
 275 280 285

Ser Gln Gly Pro Asp Gln Glu Arg Ser Leu Ser Ala Tyr Pro Val Gly
 290 295 300

Glu Glu Ala Ala Glu Asp Gly Arg Ser Ser His His Arg His Arg Arg
 305 310 315 320

Gly Gln Glu Thr Val Ser Ser Glu Leu Lys Lys Pro Leu Gly Pro Ala
 325 330 335

Ser Phe Asn Leu Ser Glu Tyr Phe Arg Gln Phe Leu Leu Pro Gln Asn
 340 345 350

Glu Cys Glu Leu His Asp Phe Arg Leu Ser Phe Ser Gln Leu Lys Trp
 355 360 365

Asp Asn Trp Ile Val Ala Pro His Arg Tyr Asn Pro Arg Tyr Cys Lys
 370 375 380

Gly Asp Cys Pro Arg Ala Val Gly His Arg Tyr Gly Ser Pro Val His
 385 390 395 400

Thr Met Val Gln Asn Ile Ile Tyr Glu Lys Leu Asp Ser Ser Val Pro
 405 410 415

Arg Pro Ser Cys Val Pro Ala Lys Tyr Ser Pro Leu Ser Val Leu Thr
 420 425 430

Ile Glu Pro Asp Gly Ser Ile Ala Tyr Lys Glu Tyr Glu Asp Met Ile
 435 440 445

Ala Thr Lys Cys Thr Cys Arg
 450 455

<210> 40
 <211> 238
 <212> PRT
 <213> Homo sapiens

<400> 40

Pro Met Pro Gly Leu Ile Ser Ala Arg Gly Gln Pro Leu Leu Glu Val
 1 5 10 15

Leu Pro Pro Gln Ala His Leu Gly Ala Leu Phe Leu Pro Glu Ala Pro
 20 25 30

Leu Gly Leu Ser Ala Gln Pro Ala Leu Trp Pro Thr Leu Ala Ala Leu
 35 40 45

Ala Leu Leu Ser Ser Val Ala Glu Ala Ser Leu Gly Ser Ala Pro Arg
 50 55 60

Ser Pro Ala Pro Arg Glu Gly Pro Pro Pro Val Leu Ala Ser Pro Ala
65 70 75 80

Gly His Leu Pro Gly Gly Arg Thr Ala Arg Trp Cys Ser Gly Arg Ala
85 90 95

Arg Arg Pro Pro Pro Gln Pro Ser Arg Pro Ala Pro Pro Pro Pro Ala
100 105 110

Pro Pro Ser Ala Leu Pro Arg Gly Gly Arg Ala Ala Arg Ala Gly Gly
115 120 125

Pro Gly Ser Arg Ala Arg Ala Ala Gly Ala Arg Gly Cys Arg Leu Arg
130 135 140

Ser Gln Leu Val Pro Val Arg Ala Leu Gly Leu Gly His Arg Ser Asp
145 150 155 160

Glu Leu Val Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala Arg
165 170 175

Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala Leu
180 185 190

Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro Cys Cys Arg Pro
195 200 205

Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr Trp Arg
210 215 220

Thr Val Asp Arg Leu Ser Ala Thr Ala Cys Gly Cys Leu Gly
225 230 235

<210> 41
<211> 157
<212> PRT
<213> Homo sapiens

<400> 41

Pro Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser
1 5 10 15

Leu Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val
 20 25 30

Ala Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr
 35 40 45

Trp Leu Gly Thr His Arg Pro Leu Ala Arg Leu Arg Arg Ala Leu Ser
 50 55 60

Gly Pro Cys Gln Leu Trp Ser Leu Thr Leu Ser Val Ala Glu Leu Gly
 65 70 75 80

Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly
 85 90 95

Ser Cys Pro Arg Gly Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg
 100 105 110

Leu Gln Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys Arg Pro Thr
 115 120 125

Arg Tyr Thr Asp Val Ala Phe Leu Asp Asp Arg His Arg Trp Gln Arg
 130 135 140

Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
 145 150 155

<210> 42
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 42

Pro Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr
 1 5 10 15

Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr Val Asn Thr
 20 25 30

Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Thr Arg Val Leu Gln Gly
 35 40 45

Val Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg Asp Val Arg
 50 55 60

Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val Asn Pro Val
65 70 75 80

Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu Cys Arg Arg
85 90 95

Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu Thr Cys Asp
100 105 110

Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser
115 120 125

Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
130 135 140